


CORNERSTONE TECHNOLOGIES, INC.
Environmental & Construction

September 24, 1996

LACDPW File No. EP-1 011474-011516

VIA FEDERAL EXPRESS

Mr. David Esfandi
Environmental Programs
LACDPW
900 Fremont Street, Annex 3rd Flr.
Alhambra, CA 91803-1331

011474-011516

IEO
CSR**RECEIVED****SEP 25 1996**DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION

Subject: **Industrial Waste Pretreatment System Closure**
Armstrong World Industries, 5037 Patata Street
Cornerstone PN E3390-9642

Dear Mr. Esfandi,

We first sent a copy of this report to Mr. John Hunter of the City of South Gate. Upon completion of his review, Mr. Hunter requested we forward the report to the Los Angeles County Department of Public Works (LACDPW). Attached is a copy of the sampling data for the above referenced project. Should you have any questions or comments, please do not hesitate to call me at (714) 851-3099.

Respectfully,
CORNERSTONE TECHNOLOGIES, INC.

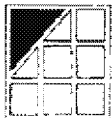
A-170642

John R. Talbot, REA
Environmental Project Manager

enclosure:

C-173372





CORNERSTONE TECHNOLOGIES, INC.

Environmental & Construction

September 16, 1996

Mr. William S. Woyshner
Armstrong World Industries, Inc.
5037 Patata Street
South Gate, California 90280

RECEIVED
SEP 25 1996
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION

RE: **Summary Report of Limited Phase II Subsurface Investigation of Existing In-Operative Clarifier**
5037 Patata Street
South Gate, California 90280
Cornerstone Project No. E3353-9643

Dear Mr. Woyshner:

Cornerstone Technologies Inc., (Cornerstone), as per your request, is pleased to present this Summary Report for the Limited Phase II Subsurface Investigation performed at the above referenced property.

This report documents the general activities performed at the Site per the scope of work, and as based on the budgetary constraints, agreed to dated May 9, 1996. The sampling was limited to shallow hand augers in four (4) specific locations. Cornerstone advised at a minimum, a limited soil survey should be performed in the following areas: (1) the clarifier influent connection (capped); (2) the clarifier effluent connection (capped); (3) Stage I of the clarifier; and (4) Stage III of the clarifier. (Please refer to Figures 1 & 2). Our workplan was submitted and approved by both the City of South Gate and the Los Angeles County Department of Public Works (LACDPW). Both the City of South Gate and LACDPW approvals are included in the Appendix D.

Background

Cornerstone Technologies, Inc. (Cornerstone) was retained by Armstrong World Industries, Inc. (herein referred to as the Site) located at 5037 Patata Street, South Gate, California 90280 to perform a Limited Preliminary Phase II Subsurface Investigation of an existing in-operative clarifier located below an oil water separator at the subject Site in conjunction with our workplan for closure in place of the unit.



Workplan

Cornerstone performed the required sampling by coring through the clarifier after cleaning and removing the existing residual liquid which was determined to be uncontaminated stormwater runoff. Cornerstone has prepared this report to request closure in place of the in-operative unit. Upon receiving closure approval, Cornerstone will backfill the clarifier with a compacted concrete slurry and then cap the unit with a 6" concrete slab. Armstrong is requesting closure in place since the in-operative clarifier for which this workplan has been prepared is located directly below an operating high-efficiency oil/water separator (OWS). Relocation of this OWS would require a great deal of time, expense and down time.

- (a) **Workplan Preparation** - Cornerstone prepared a workplan which was approved by the City of South Gate and LACDPW on August 8, 1996.
- (b) **Health & Safety** - All personnel at the site, including all regulatory officials, agreed to all health and safety precautions for performing the required sampling. Cornerstone utilized an organic vapor analyzer (OVA) to screen all soil samples and entry areas to assess any hazardous conditions. No readings were detected utilizing the OVA with photoionizing detector. In addition, Cornerstone also utilized additional on-site air sampling via Drager tubes with a 0.1 ppm detection limit. No detectable readings were observed.
- (c) **Removal of Residual Liquid and Sampling** - Cornerstone contracted with a licensed waste hauler to remove the existing liquid from the clarifier prior to sampling. The clarifier was hydroblasted to remove any remaining residual materials from the walls and floor of the unit. All liquids were manifested and removed from the site to a permitted waste disposal facility. All documentation including manifests are included in Appendix D. The material in the clarifier was storm water runoff, estimated to be approximately 1,400 gallons.
- (d) **Sampling** - Cornerstone then cored four holes to obtain appropriate soil samples from the influent and effluent ports and from two locations beneath the unit (Please refer to Figure 2). Each of these holes were filled with bentonite and capped with concrete upon completion of the sampling so as to close potential surface spill pathways. Cornerstone followed all sampling protocols including decontamination of sampling equipment, proper chain of custody documentation and proper health and safety. All soil sampling was performed by a State of California Registered Geologist (RG). Soil analysis data was cross checked by use of in-field Organic Vapor Analyzer (OVA) measurements. All four soil samples were tested via EPA SW-846 Method 418.1 for Total Recoverable Petroleum Hydrocarbons (TRPH), California Administrative Manual



Metals (CAM 17), EPA Method 9045 for pH (1:5), and EPA Method 8240 for solvents. The following soil samples were tested at the following locations and depths:

Sampling Protocol

| Sample ID | Location | Depth | Sample Analysis |
|-----------|------------------------------|--|--|
| S-1 | Influent Connection (Capped) | 5' below ground surface (bgs) and 3' out horizontally | 418.1 TRPH CAM Metals (17) 8240 Solvents 8015M Fingerprint TPH 9045 pH (1:5) |
| S-2 | Effluent Connection (Capped) | 5' below ground surface (bgs) and 3' in horizontally | |
| S-3 | Stage I | 5' below clarifier bottom, Stage I counting from influent connection | |
| S-4 | Stage III | 5' below clarifier bottom | |

- (c) **Final Report** - This final report summarizes the sampling data and includes all additional pertinent data which will be submitted to the City of South Gate and LACDPW for final closure approval.
- (d) **Backfill** - Upon approval of the sampling data, Cornerstone will backfill the clarifier with a concrete slurry and cap the unit with a 6" concrete slab.

Field Activities

On August 21, 1996, Cornerstone advanced four (4) hand auger soil borings in and near the in-operative clarifier to obtain appropriate samples for analytical review of potential environmental concerns. The hand augers were advanced in the following locations: (1) the clarifier influent connection (capped); (2) the clarifier effluent connection (capped); (3) Stage I of the clarifier; and (4) Stage III of the clarifier. (Please refer to Figures 1 & 2). Cornerstone was met on-site by Mr. David Dolphin, of LACDPW, to oversee the sampling effort.



All borings were located based on observations made in the March 7, 1996 review of the subject Site (Please refer to Figure 2).

The four (4) hand auger soil borings were identified as S-1, S-2, S-3, and S-4. This boring was placed at the capped influent location of the clarifier, with a sample collected at a depth of 5 feet below ground surface (bgs). The second boring, S-2, was placed at the capped effluent location of the clarifier, with a sample collected at a depth of 5 feet bgs. Boring S-3 was taken from the first stage of the clarifier, with a sample collected at a depth of 5 feet below the clarifier bottom. Boring S-4 was taken from the third stage in the clarifier, with a sample collected at a depth of 5 feet below clarifier bottom. Groundwater was not encountered in any of the four described hand auger soil borings during this investigation.

The soil samples were collected and appropriately stored in an ice chest and immediately submitted, via a chain-of-custody form, to an approved off-Site state certified laboratory for processing and analysis. At the completion of the hand auger boring activities, the boreholes were backfilled with bentonite chips and hydrated with purified water (Please refer to Appendix A for field methodologies).

Soil Analytical Results

Results of sampling analysis as reported by Associated Laboratories in Orange, California, a state certified environmental testing laboratory, indicated all samples contained metal concentrations below the TTLC limit and none tested above 10 times the STLC limit. With respect to petroleum hydrocarbons, results via EPA Method 8015M/5030 indicated 8 mg/kg (C₄-C₁₄) for sample S-2 and Non-Detect for all others. Results via EPA Method 418.1 indicated 38 mg/kg for sample S-3 and 17 mg/kg for sample S-4. Results via EPA Method 8240 indicated the presence of 1,1,1 Trichloroethane and 1,1,2 Trichloroethane in samples S-3 and S-4 and the presence of Tetrachloroethene in Sample S-3. All other samples were Non-Detect. All samples were screened on-site, utilizing an Organic vapor analyzer (OVA), NONE of the samples indicated any detectable vapor concentrations during field screening with the OVA. (Please refer to Table I & II for soil sample analytical results).

Soil Conditions and Other Observations

Based upon the soil sample exploratory boring logs, recorded by Dr. Robin Chang, RG, REA, the soil encountered to 5' below ground surface (bgs) was fine sand, brown gray with traces of gravel. The soil was moist with no odor detected.



Topographically, the subject Site is approximately 112 feet above mean sea level. The Los Angeles River, flowing north to south, is located directly east of the Site. The 710 Long Beach Freeway is located just beyond the Los Angeles River. The general topography of the Site slopes to the east, toward the Los Angeles River.

The regional stratigraphy includes non-marine sedimentary units overlain by alluvium deposits from the Cenozoic (Continental) age. Soils in the area are characteristically interbedded medium to fine grained silty sand, cobblestones, and clay/silty clay strata which function as aquicludes. These soils promote excessive draining due to calcareous, loamy sands which have formed on gently sloping alluvial plains and fans.

According to information obtained from Mr. Rodney Brown, of the Los Angeles County Hydrolic Water Conservation Department, groundwater occurs at a range in depth from 100 to 110 feet below ground surface (bgs). Based on groundwater elevations, groundwater has an inferred southwesterly gradient towards the Pacific Ocean. According to Mr. Lubo Tomaier, Senior Water Engineer for the City of South Gate Public Works, potable drinking water is obtained from domestic groundwater wells and has also been imported from the Metropolitan Water District (MWD).

Since geo-chemical analytical information was unavailable for a review of the water quality at this Site, determination as to whether or not it meets the required EPA standards is unknown.

Conclusions

Therefore, on behalf of Armstrong World Industries, Inc., Cornerstone seeks approval for closure, in place, of the in-operative clarifier unit. Based upon the results reported by Associated Laboratories, it does not appear that significant contamination exist at the sample locations.



Limitations

The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

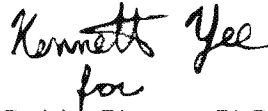
Cornerstone is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

Should you have any questions or comments, please do not hesitate to call me at (714) 851-3099.

Respectfully,
CORNERSTONE TECHNOLOGIES, INC.



John R. Talbot, REA
Environmental Project Manager



Robin Chang, PhD, RG, REA
Project Geologist

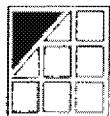
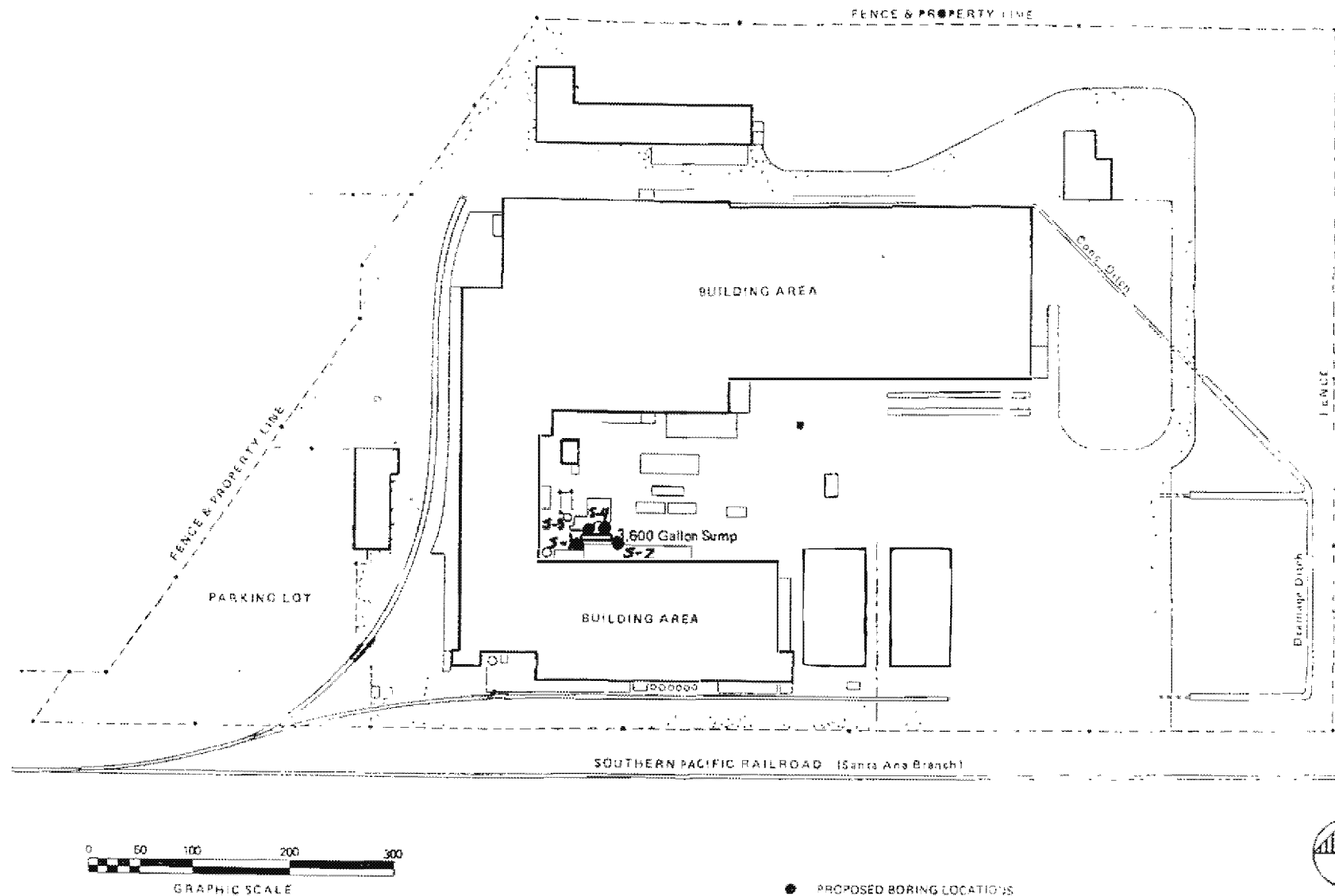
Enclosures:

Figure 1 - Site Plot Plan
Figure 2 - Sample Locations

Table 1 - Analytical Results
Table 2 - Analytical Results

Appendix A - Field Methodologies
Appendix B - Analytical Report
Appendix C - Boring Logs
Appendix D - Pertinent Documents



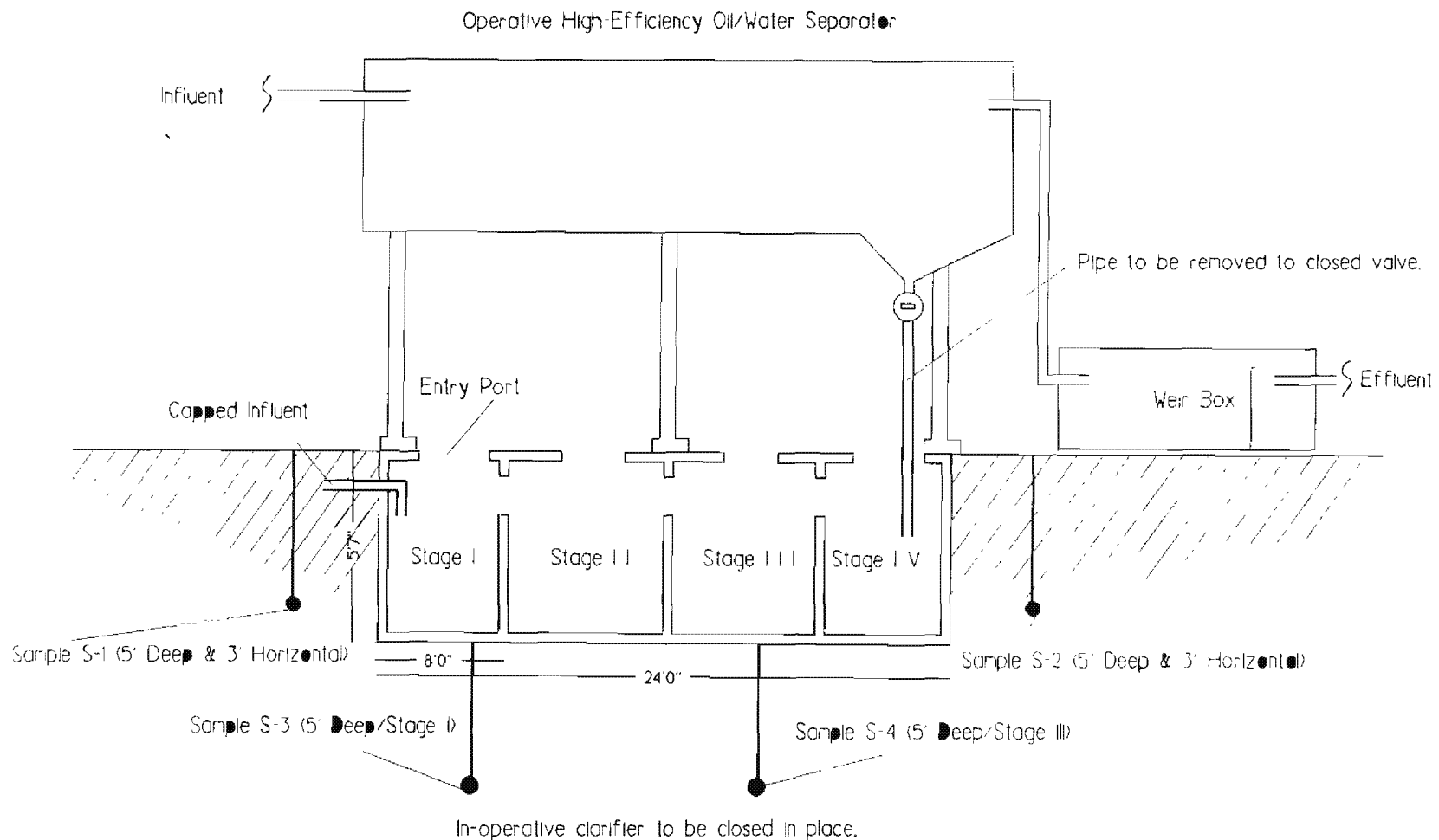


**CORNERSTONE
TECHNOLOGIES, INC.**
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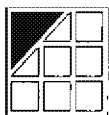
ARMSTRONG WORLD INDUSTRIES, INC.
5037 PATATA STREET
CITY OF SOUTH GATE
COUNTY OF LOS ANGELES, CALIFORNIA

FIGURE 1
SITE PLOT PLAN

PROJECT NO. E3390-9642



NOTE: In-operative clarifier has no connections to sewerage lines.



**CORNERSTONE
TECHNOLOGIES, INC.**
Environmental & Construction

ARMSTRONG WORLD INDUSTRIES, INC
5037 PATATA STREET
CITY OF SOUTH GATE
COUNTY OF LOS ANGELES, CALIFORNIA

FIGURE 2
SAMPLE LOCATIONS

PROJECT NO E3390-9642

TABLE I
Soil Sample Results - August 21, 1996
Armstrong World Industries, Inc.
5037 Patata Street, South Gate, California

| CAM Inorganics | TTLC (mg/kg) | STLC (mg/kg) | EPA Method | S-1-5' TTLC (mg/kg) | S-2-5' TTLC (mg/kg) | S-3-5' Below Clarifier TTLC (mg/kg) | S-4-5' Below Clarifier TTLC (mg/kg) |
|-----------------|-----------------|-----------------|---------------|---------------------------|---------------------------|---|---|
| Antimony | 500 | 15 | 6010 | 5.61 | 7.17 | 8.70 | 9.60 |
| Arsenic | 500 | 5.0 | 6010 | 1.04 | 1.25 | 1.82 | 1.88 |
| Barium | 10,000 | 100 | 6010 | 71.0 | 112 | 133 | 135 |
| Beryllium | 75 | 0.75 | 6010 | 0.42 | 0.74 | 0.96 | 0.93 |
| Cadmium | 100 | 1.0 | 6010 | ND<0.14 | ND<0.14 | ND<0.14 | ND<0.14 |
| Chromium, Total | 2,500 | 560 | 6010 | 13.1 | 18.7 | 27.9 | 37.9 |
| Cobalt | 8,000 | 80 | 6010 | 7.38 | 11.7 | 13.4 | 14.6 |
| Copper | 2,500 | 25 | 6010 | 7.81 | 11.2 | 23.4 | 25.5 |
| Lead | 1,000 | 5.0 | 6010 | 2.25 | 3.32 | 4.24 | 4.51 |
| Mercury | 20 | 0.2 | 7470 | ND<0.07 | ND<0.07 | ND<0.07 | ND<0.07 |
| Molybdenum | 3,500 | 350 | 6010 | 2.23 | 3.08 | ND<0.7 | ND<0.7 |
| Nickel | 2,000 | 20 | 6010 | 5.62 | 9.48 | 12.1 | 12.9 |
| Selenium | 100 | 1.0 | 6010 | 0.25 | ND<0.2 | ND<0.2 | ND<0.2 |
| Silver | 500 | 5 | 6010 | ND<0.4 | ND<0.4 | ND<0.4 | ND<0.4 |
| Thallium | 700 | 7.0 | 6010 | 2.06 | 4.24 | 4.10 | 4.61 |
| Vanadium | 2,400 | 24 | 6010 | 24.6 | 40.2 | 41.3 | 43.7 |
| Zinc | 5,000 | 250 | 6010 | 32.1 | 52.1 | 58.3 | 61.1 |

ND = Non-Detect
EPA Method 6010 = CAM Inorganics (See Attached Associated Laboratory List)



TABLE II
Soil Sample Results - August 21, 1996
Armstrong World Industries, Inc.
5037 Patata Street, South Gate, California

| Constituent | EPA Method | S-1-5' | S-2-5' | S-3-5' Below Clarifier | S-4-5' Below Clarifier |
|---|-------------|---------------|---------------|---------------------------|---------------------------|
| Carbon Chain I.D. C ₄ -C ₁₄ | 8015-M/5030 | ND < 5 mg/kg | 8 mg/kg | ND < 5 mg/kg | ND < 5 mg/kg |
| Carbon Chain I.D. C ₁₄ -C ₂₈ | 8015-M/5030 | ND < 10 mg/kg | ND < 10 mg/kg | ND < 10 mg/kg | ND < 10 mg/kg |
| pH (1:5) | 9045 | 9.07 | 8.26 | 8.61 | 8.69 |
| Hydrocarbons | 418.1 | ND < 10 mg/kg | ND < 10 mg/kg | 38 mg/kg | 17 mg/kg |
| Purgeable Organics | | | | | |
| 1,1,1-Trichloroethane | 8240 | ND | ND | 50 ug/kg | 12 ug/kg |
| 1,1,2-Trichloroethane | 8240 | ND | ND | 44 ug/kg | 31 ug/kg |
| Tetrachloroethene | 8240 | ND | ND | 5 ug/kg | ND |
| See Attached Complete List | 8240 | ND | ND | ND | ND |

EPA Method 8015 = Carbon Chain I.D.
EPA Method 9045 = pH (1:5)
EPA Method 8240 = Purgeable Organics (See Attached Associated Laboratory List)
EPA Method 418.1 = Total Recoverable Petroleum Hydrocarbons



APPENDIX A
FIELD METHODOLOGIES



FIELD METHODOLOGIES

Hand Auger Boring Advancement

The exploration program for this study consisted of steel hand augering equipment used for the collection of belowground soil samples. On August 21, 1996, the auger equipment was advanced in all sample bore holes by Mr. John R. Talbot, REA and Dr. Robin Chang, RG, REA, of Cornerstone. Auger equipment advancement was conducted such that the locations were open to the atmosphere (air-filled) during the procedures. No fluids, including clean water, or additives were used during auger advancement.

Auger Sampling

The hand auger soil samples were collected from the four separate locations. Soil samples were obtained from the collection space in the hand auger equipment bit. The hand auger bit was bored into the undisturbed soil of the four described locations where sample quantities of approximately 100 grams were collected from a 1-foot vertical interval at the specified depth. The specified samples were withdrawn from the lower limit of the desired sample interval via the extendable boring shaft of the auger equipment.

Once at the ground surface, the soil samples were placed into a clean glass jars with teflon lined lids, labeled, and immediately stored in an ice chest for eventual transport to the approved laboratory for analysis. Soil samples were collected, stored, transported and analyzed in accordance with EPA Sample Collection Codes. A Chain-of-Custody record was maintained throughout these operations.

Associated Laboratories of Orange, California (State certified laboratory) chemically analyzed all samples off-Site at their laboratory facility in accordance with EPA Methods 6010, 7470, 8015, 8240, 9045 and 418.1. After a soil sample was collected, the hand auger equipment was washed with alcanox and rinsed.

Chain-of-Custody Procedures

Chain-of-Custody procedures were maintained for all soil samples collected. This form was completed by the sample collector before releasing the samples to the laboratory. The chain-of-custody form was routed with the samples through transportation and analyses. Completed chain-of-custody forms were returned to Cornerstone along with the results from the analytical laboratory. These forms are included in Appendix B.

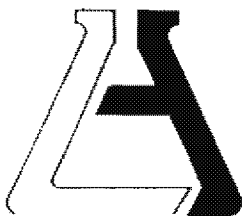
Equipment Decontamination

Between the collection of each sample, all portions of the hand auger equipment were washed with alcanox and then double rinsed with distilled water.



APPENDIX B
ANALYTICAL REPORT





ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Cornerstone Technologies
Attn: John Talbot
1300 Quail St.
Suite 203
Newport Beach, CA 92660

LAB NO JW1547-G1
REPORTED 08/29/96

SAMPLE

Soil - S-1-5

RECEIVED 08/21/96

IDENTIFICATION

Armstrong/E3390-9642
Date Collected 08/21/96
As Submitted

BASED ON SAMPLE

| CAM INORGANICS | LIMITS | | EPA Method | Date/Analyst | TTLT (mg/kg) |
|-----------------|-----------------|----------------|---------------|--------------|-----------------|
| | TTLT (mg/kg) | STLT (mg/l) | | | |
| Antimony | 500 | 15 | 6010 | 08/22/96 MT | 5.61 |
| Arsenic | 500 | 5.0 | 6010 | 08/22/96 MT | 1.04 |
| Barium | 10,000 | 100 | 6010 | 08/22/96 MT | 71.0 |
| Beryllium | 75 | 0.75 | 6010 | 08/22/96 MT | 0.42 |
| Cadmium | 100 | 1.0 | 6010 | 08/22/96 MT | ND< 0.14 |
| Chromium, Total | 2,500 | 560 | 6010 | 08/22/96 MT | 13.1 |
| Cobalt | 8,000 | 80 | 6010 | 08/22/96 MT | 7.38 |
| Copper | 2,500 | 25 | 6010 | 08/22/96 MT | 7.81 |
| Lead | 1,000 | 5.0 | 6010 | 08/22/96 MT | 2.25 |
| Mercury | 20 | 0.2 | 7470 | 08/22/96 NK | ND< 0.07 |
| Molybdenum | 3,500 | 350 | 6010 | 08/22/96 MT | 2.23 |
| Nickel | 2,000 | 20 | 6010 | 08/22/96 MT | 5.62 |
| Selenium | 100 | 1.0 | 6010 | 08/22/96 MT | 0.25 |
| Silver | 500 | 5 | 6010 | 08/22/96 MT | ND< 0.4 |
| Thallium | 700 | 7.0 | 6010 | 08/22/96 MT | 2.06 |
| Vanadium | 2,400 | 24 | 6010 | 08/22/96 MT | 24.6 |
| Zinc | 5,000 | 250 | 6010 | 08/22/96 MT | 32.1 |

Client: Cornerstone Technologies
Lab No.: JW1547-01 Sample: S-1-5
Date: August 29, 1996

| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|------------------------------------|-----------------|---------------------|---------------|
| Carbon Chain I.D. | | | |
| - C ₄ -C ₁₄ | EPA 8015-M/5030 | 08/23/96 AHT | ND< 5 mg/kg |
| - C ₁₄ -C ₂₈ | EPA 8015-M/3550 | 08/23/96 AHT | ND<10 mg/kg |
| pH (1:5) | EPA 9045 | 08/23/96 LN | 9.07 |
| Hydrocarbons | EPA 418.1 | 08/23/96 AHT | ND<10 mg/kg |

PURGEABLE ORGANICS

| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|--------------------|---------------|---------------------|---------------|
| ---- | EPA 8240 | 08/28/96 AS | ND* |

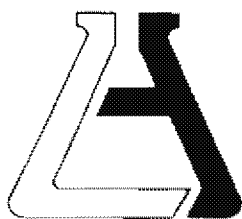
*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:


Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded
by appropriate disposal protocol 30 days from date reported.



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Cornerstone Technologies
Attn: John Talbot
1300 Quail St.
Suite 203
Newport Beach, CA 92660

LAB NO JW1547-02
REPORTED 08/29/96

SAMPLE

Soil - S-2-5

RECEIVED 08/21/96

IDENTIFICATION

Armstrong/E3390-9642
Date Collected 08/21/96
As Submitted

BASED ON SAMPLE

| CAM INORGANICS | LIMITS | | EPA Method | Date/Analyst | | TTLC (mg/kg) |
|-----------------|-----------------|----------------|---------------|--------------|----|-----------------|
| | TTLC (mg/kg) | STLC (mg/l) | | | | |
| Antimony | 500 | 15 | 6010 | 08/22/96 | MT | 7.17 |
| Arsenic | 500 | 5.0 | 6010 | 08/22/96 | MT | 1.25 |
| Barium | 10,000 | 100 | 6010 | 08/22/96 | MT | 112 |
| Beryllium | 75 | 0.75 | 6010 | 08/22/96 | MT | 0.74 |
| Cadmium | 100 | 1.0 | 6010 | 08/22/96 | MT | ND< 0.14 |
| Chromium, Total | 2,500 | 560 | 6010 | 08/22/96 | MT | 18.7 |
| Cobalt | 8,000 | 80 | 6010 | 08/22/96 | MT | 11.7 |
| Copper | 2,500 | 25 | 6010 | 08/22/96 | MT | 11.2 |
| Lead | 1,000 | 5.0 | 6010 | 08/22/96 | MT | 3.32 |
| Mercury | 20 | 0.2 | 7470 | 08/22/96 | NK | ND< 0.07 |
| Molybdenum | 3,500 | 350 | 6010 | 08/22/96 | MT | 3.08 |
| Nickel | 2,000 | 20 | 6010 | 08/22/96 | MT | 9.48 |
| Selenium | 100 | 1.0 | 6010 | 08/22/96 | MT | ND< 0.2 |
| Silver | 500 | 5 | 6010 | 08/22/96 | MT | ND< 0.4 |
| Thallium | 700 | 7.0 | 6010 | 08/22/96 | MT | 4.24 |
| Vanadium | 2,400 | 24 | 6010 | 08/22/96 | MT | 40.2 |
| Zinc | 5,000 | 250 | 6010 | 08/22/96 | MT | 52.1 |

Client: Cornerstone Technologies
Lab No.: JW1547-02 Sample: S-2-5
Date: August 29, 1996

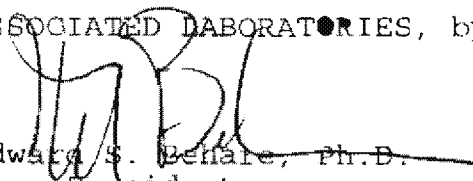
| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|------------------------------------|-----------------|---------------------|---------------|
| Carbon Chain I.D. | | | |
| - C ₄ -C ₁₄ | EPA 8015-M/5030 | 08/23/96 AHT | 8 mg/kg |
| - C ₁₄ -C ₂₈ | EPA 8015-M/3550 | 08/23/96 AHT | ND<10 mg/kg |
| pH (1:5) | EPA 9045 | 08/23/96 LN | 8.26 |
| Hydrocarbons | EPA 418.1 | 08/23/96 AHT | ND<10 mg/kg |

PURGEABLE ORGANICS

| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|--------------------|---------------|---------------------|---------------|
| ---- | EPA 8240 | 08/28/96 AS | ND* |

*All Target Compounds Were None Detected. See Attached List.

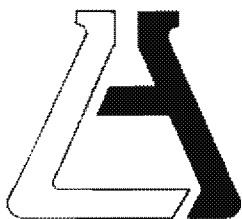
ASSOCIATED LABORATORIES, by:


Edward S. Benfale, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded
by appropriate disposal protocol 30 days from date reported.

1

**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Cornerstone Technologies
Attn: John Talbot
1300 Quail St.
Suite 203
Newport Beach, CA 92660

LAB NO JW1547-03

REPORTED 08/29/96

SAMPLE

Soil - S-3-5

RECEIVED

08/21/96

IDENTIFICATION

Armstrong/E3390-9642

Date Collected 08/21/96

BASED ON SAMPLE

As Submitted

| CAM INORGANICS | LIMITS | | EPA Method | Date/Analyst | | TTLC (mg/kg) |
|-----------------|-----------------|----------------|---------------|--------------|----|-----------------|
| | TTLC (mg/kg) | STLC (mg/l) | | | | |
| Antimony | 500 | 15 | 6010 | 08/22/96 | MT | 8.70 |
| Arsenic | 500 | 5.0 | 6010 | 08/22/96 | MT | 1.82 |
| Barium | 10,000 | 100 | 6010 | 08/22/96 | MT | 133 |
| Beryllium | 75 | 0.75 | 6010 | 08/22/96 | MT | 0.96 |
| Cadmium | 100 | 1.0 | 6010 | 08/22/96 | MT | ND< 0.14 |
| Chromium, Total | 2,500 | 560 | 6010 | 08/22/96 | MT | 27.9 |
| Cobalt | 8,000 | 80 | 6010 | 08/22/96 | MT | 13.4 |
| Copper | 2,500 | 25 | 6010 | 08/22/96 | MT | 23.4 |
| Lead | 1,000 | 5.0 | 6010 | 08/22/96 | MT | 4.24 |
| Mercury | 20 | 0.2 | 7470 | 08/22/96 | NK | ND< 0.07 |
| Molybdenum | 3,500 | 350 | 6010 | 08/22/96 | MT | ND< 0.7 |
| Nickel | 2,000 | 20 | 6010 | 08/22/96 | MT | 12.1 |
| Selenium | 100 | 1.0 | 6010 | 08/22/96 | MT | ND< 0.2 |
| Silver | 500 | 5 | 6010 | 08/22/96 | MT | ND< 0.4 |
| Thallium | 700 | 7.0 | 6010 | 08/22/96 | MT | 4.10 |
| Vanadium | 2,400 | 24 | 6010 | 08/22/96 | MT | 41.3 |
| Zinc | 5,000 | 250 | 6010 | 08/22/96 | MT | 58.3 |

Client: Cornerstone Technologies
Lab No.: JW1547-03 Sample: S-3-5
Date: August 29, 1996

| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|------------------------------------|-----------------|---------------------|---------------|
| Carbon Chain I.D. | | | |
| - C ₄ -C ₁₄ | EPA 8015-M/5030 | 08/23/96 AHT | ND< 5 mg/kg |
| - C ₁₄ -C ₂₈ | EPA 8015-M/3550 | 08/23/96 AHT | ND<10 mg/kg |
| pH (1:5) | EPA 9045 | 08/23/96 LN | 8.61 |
| Hydrocarbons | EPA 418.1 | 08/23/96 AHT | 38 mg/kg |

PURGEABLE ORGANICS

| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|-----------------------|---------------|---------------------|---------------|
| 1,1,1-Trichloroethane | EPA 8240 | 08/28/96 AS | 50 µg/kg |
| 1,1,2-Trichloroethane | EPA 8240 | 08/28/96 AS | 44 µg/kg |
| Tetrachloroethene | EPA 8240 | 08/28/96 AS | 5 µg/kg |

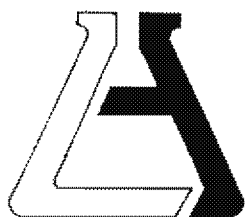
All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:


Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded
by appropriate disposal protocol 30 days from date reported.

**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

CLIENT

Cornerstone Technologies
Attn: John Talbot
1300 Quail St.
Suite 203
Newport Beach, CA 92660

LAB NO JW1547-04

REPORTED 08/29/96

SAMPLE

Soil - S-4-5

RECEIVED 08/21/96

IDENTIFICATION

Armstrong/E3390-9642
Date Collected 08/21/96
As Submitted

BASED ON SAMPLE

| CAM INORGANICS | LIMITS | | EPA Method | Date/Analyst | | TTLC (mg/kg) |
|-----------------|-----------------|----------------|---------------|--------------|----|-----------------|
| | TTLC (mg/kg) | STLC (mg/l) | | | | |
| Antimony | 500 | 15 | 6010 | 08/22/96 | MT | 9.60 |
| Arsenic | 500 | 5.0 | 6010 | 08/22/96 | MT | 1.88 |
| Barium | 10,000 | 100 | 6010 | 08/22/96 | MT | 135 |
| Beryllium | 75 | 0.75 | 6010 | 08/22/96 | MT | 0.93 |
| Cadmium | 100 | 1.0 | 6010 | 08/22/96 | MT | ND< 0.14 |
| Chromium, Total | 2,500 | 560 | 6010 | 08/22/96 | MT | 37.9 |
| Cobalt | 8,000 | 80 | 6010 | 08/22/96 | MT | 14.6 |
| Copper | 2,500 | 25 | 6010 | 08/22/96 | MT | 25.5 |
| Lead | 1,000 | 5.0 | 6010 | 08/22/96 | MT | 4.51 |
| Mercury | 20 | 0.2 | 7470 | 08/22/96 | NK | ND< 0.07 |
| Molybdenum | 3,500 | 350 | 6010 | 08/22/96 | MT | ND< 0.7 |
| Nickel | 2,000 | 20 | 6010 | 08/22/96 | MT | 12.9 |
| Selenium | 100 | 1.0 | 6010 | 08/22/96 | MT | ND< 0.2 |
| Silver | 500 | 5 | 6010 | 08/22/96 | MT | ND< 0.4 |
| Thallium | 700 | 7.0 | 6010 | 08/22/96 | MT | 4.61 |
| Vanadium | 2,400 | 24 | 6010 | 08/22/96 | MT | 43.7 |
| Zinc | 5,000 | 250 | 6010 | 08/22/96 | MT | 61.1 |

Client: Cornerstone Technologies
Lab No.: JW1547-04 Sample: S-4-5
Date: August 29, 1996

| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|------------------------------------|-----------------|---------------------|---------------|
| Carbon Chain I.D. | | | |
| - C ₄ -C ₁₄ | EPA 8015-M/5030 | 08/23/96 AHT | ND< 5 mg/kg |
| - C ₁₄ -C ₂₈ | EPA 8015-M/3550 | 08/23/96 AHT | ND<10 mg/kg |
| pH (1:5) | EPA 9045 | 08/23/96 LN | 8.69 |
| Hydrocarbons | EPA 418.1 | 08/23/96 AHT | 17 mg/kg |

PURGEABLE ORGANICS

| <u>Constituent</u> | <u>Method</u> | <u>Date/Analyst</u> | <u>Result</u> |
|-----------------------|---------------|---------------------|---------------|
| 1,1,1-Trichloroethane | EPA 8240 | 08/28/96 AS | 12 µg/kg |
| 1,1,2-Trichloroethane | EPA 8240 | 08/28/96 AS | 31 µg/kg |

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:


Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded
by appropriate disposal protocol 30 days from date reported.

Client: Cornerstone Technologies
Lab No.: JW1547-01, 02, 03, 04
Date: August 29, 1996

VOLATILE ORGANICS - EPA METHOD 8240
Dilution Factor = 1

| <u>CAS NO.</u> | <u>COMPOUND</u> | <u>DETECTION LIMIT</u> <u>(micrograms/kg)</u> |
|----------------|---------------------------|--|
| 74-87-3 | Chloromethane | ND< 10 |
| 74-83-9 | Bromomethane | ND< 10 |
| 75-01-4 | Vinyl Chloride | ND< 10 |
| 75-00-3 | Chloroethane | ND< 10 |
| 75-09-2 | Methylene Chloride | ND< 5 |
| 67-64-1 | Acetone | ND<100 |
| 75-15-0 | Carbon Disulfide | ND< 5 |
| 75-35-4 | 1,1-Dichloroethene | ND< 5 |
| 75-34-3 | 1,1-Dichloroethane | ND< 5 |
| 540-59-0 | trans-1,2-Dichloroethene | ND< 5 |
| 67-66-3 | Chloroform | ND< 5 |
| 107-06-2 | 1,2-Dichloroethane | ND< 5 |
| 78-93-3 | 2-Butanone | ND<100 |
| 71-55-6 | 1,1,1-Trichloroethane | ND< 5 |
| 56-23-5 | Carbon Tetrachloride | ND< 5 |
| 108-05-4 | Vinyl Acetate | ND< 50 |
| 75-27-4 | Bromodichloromethane | ND< 5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND< 5 |
| 78-87-5 | 1,2-Dichloropropane | ND< 5 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND< 5 |
| 79-01-6 | Trichloroethene | ND< 5 |
| 124-48-1 | Dibromochloromethane | ND< 5 |
| 79-00-5 | 1,1,2-Trichloroethane | ND< 5 |
| 71-43-2 | Benzene | ND< 5 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND< 5 |
| 110-75-8 | 2-Chloroethyl Vinyl Ether | ND< 10 |
| 75-25-2 | Bromoform | ND< 5 |
| 591-78-6 | 2-Hexanone | ND< 50 |
| 108-10-1 | 4-Methyl-2-Pentanone | ND< 50 |
| 127-18-4 | Tetrachloroethene | ND< 5 |
| 108-88-3 | Toluene | ND< 5 |
| 108-90-7 | Chlorobenzene | ND< 5 |
| 100-41-4 | Ethylbenzene | ND< 5 |
| 100-42-5 | Styrene | ND< 5 |
| 1330-20-7 | Xylene (total) | ND< 5 |
| 95-50-1 | 1,2-Dichlorobenzene | ND< 5 |
| 541-73-1 | 1,3-Dichlorobenzene | ND< 5 |
| 106-46-7 | 1,4-Dichlorobenzene | ND< 5 |
| 75-01-6 | Trichlorofluoromethane | ND< 5 |



ASSOCIATED LABORATORIES

QA REPORT FORM - ORGANICS

QC Sample: JW1547-1
 Matrix: SOLID
 Analysis Date: 08/28/96

Report Date: 08/29/96
 File Name : M08286S
 Analyst: AS
 Report by : T.T.

LAB ID#'s in Batch: JW1547

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = UG/KG

| Test | Method | Sample Result | ND | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD | QC Limits | |
|--------------------|--------|---------------|----|-------------|--------------|------------------|---------|----------|------|-----------|--------|
| | | | | | | | | | | RPD | %REC |
| 1,1-Dichloroethene | 8240 | 0.00 | U | 50.00 | 56.00 | 51.00 | 112.0 | 102.0 | 9.3 | 14 | 59-172 |
| Trichloroethene | 8240 | 0.00 | U | 50.00 | 48.00 | 46.00 | 96.0 | 92.0 | 4.3 | 14 | 62-137 |
| Benzene | 8240 | 0.00 | U | 50.00 | 47.00 | 44.00 | 94.0 | 88.0 | 6.6 | 11 | 66-142 |
| Toluene | 8240 | 0.00 | U | 50.00 | 49.00 | 44.00 | 98.0 | 88.0 | 10.8 | 13 | 59-139 |
| Chlorobenzene | 8240 | 0.00 | U | 50.00 | 50.00 | 48.00 | 100.0 | 96.0 | 4.1 | 13 | 60-133 |

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate



ASSOCIATED LABORATORIES

QA REPORT FORM - INORGANICS

QC Sample: LL0591
 Matrix: SOIL
 Prep. Date: 08/22/96
 Analysis Date: 08/22/96

Analyst: MT

Report Date: 08/26/96
 File Name : Q08226S
 Prep. Method: 3050
 Report by : TT

Lab ID#'s in Batch: LL0591, JW1547, 1545, 1548, 1554, 1539, 1573

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = MG/KG

| TEST | Method | Sample Result | ND | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD |
|------------|--------|---------------|----|-------------|--------------|------------------|---------|----------|-----|
| Arsenic | 6010 | 4.140 | | 9.30 | 13.200 | 12.700 | 97.4 | 92.0 | 3.9 |
| Selenium | 6010 | 0.420 | | 9.30 | 8.500 | 8.400 | 86.9 | 85.8 | 1.2 |
| Thallium | 6010 | 4.820 | | 9.30 | 13.300 | 13.200 | 91.2 | 90.1 | 0.8 |
| Lead | 6010 | 9.810 | | 18.60 | 28.000 | 27.800 | 97.8 | 96.7 | 0.7 |
| Antimony | 6010 | 11.800 | | 93.10 | 97.000 | 98.900 | 91.5 | 93.6 | 1.9 |
| Barium | 6010 | 78.000 | | 93.10 | 163.000 | 158.000 | 91.3 | 85.9 | 3.1 |
| Beryllium | 6010 | 1.100 | | 93.10 | 92.900 | 91.100 | 98.6 | 96.7 | 2.0 |
| Cadmium | 6010 | 0.140 | U | 93.10 | 88.900 | 87.100 | 95.5 | 93.6 | 2.0 |
| Chromium | 6010 | 18.700 | | 93.10 | 107.000 | 105.000 | 94.8 | 92.7 | 1.9 |
| Cobalt | 6010 | 12.300 | | 93.10 | 101.000 | 98.000 | 95.3 | 92.1 | 3.0 |
| Copper | 6010 | 18.200 | | 93.10 | 109.000 | 106.000 | 97.5 | 94.3 | 2.8 |
| Molybdenum | 6010 | 0.700 | U | 93.10 | 83.600 | 82.400 | 89.8 | 88.5 | 1.4 |
| Nickel | 6010 | 12.700 | | 93.10 | 99.800 | 96.500 | 93.6 | 90.0 | 3.4 |
| Silver | 6010 | 0.400 | U | 93.10 | 102.000 | 102.000 | 109.6 | 109.6 | 0.0 |
| Vanadium | 6010 | 43.200 | | 93.10 | 133.000 | 129.000 | 96.5 | 92.2 | 3.1 |
| Zinc | 6010 | 60.900 | | 93.10 | 148.000 | 144.000 | 93.6 | 89.3 | 2.7 |

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate



ASSOCIATED LABORATORIES

QA REPORT FORM - INORGANICS

QC Sample: LL0554.1 Report Date: 08/26/96

Matrix: SOIL File Name: F08226S

Prep. Date: 08/22/96 Analyst: RU

Analysis Date: 08/22/96 Report by : T.T.

ID#'s in Batch: LL0591, 548, 539, 547, 551, JW1334, 1573, 1548, 1547

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = MG/KG

| Test | Method | Sample Result | ND | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD |
|----------|--------|---------------|----|-------------|--------------|------------------|---------|----------|-----|
| Fluoride | 340.2 | 1.560 | | 5.00 | 6.00 | 5.81 | 88.8 | 85.0 | 3.2 |

%REC LIMITS = 75 - 125

RPD LIMITS = 20

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

| PREP BLANK | | LCS | | | | |
|------------|----|--------|------|------|---------|---------|
| Value | ND | Result | True | %Rec | L.Limit | H.Limit |
| 0.50 | | 4.80 | 5.00 | 96.0 | 80% | 120% |

Value = Preparation Blank Value; ND = "U" for Not-Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits



ASSOCIATED LABORATORIES

QA REPORT FORM - INORGANICS

QC Sample: JW1554-1 Report Date: 08/26/96

Matrix: SOIL File Name: HG08226S

Prep. Date: 08/22/96 Analyst: NK

Analysis Date: 08/22/96 Report by : T.T.

D#'s in Batch: JW1554, 1431, 1539, 1547, 1548, 1545, 1573, LL0591

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = MG/KG

| Test | Method | Sample Result | ND | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD |
|---------|--------|---------------|----|-------------|--------------|------------------|---------|----------|-----|
| Mercury | 245.5 | 0.07 | U | 0.37 | 0.33 | 0.36 | 89.2 | 97.3 | 8.7 |

%REC LIMITS = 75 - 125

RPD LIMITS = 20

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

| PREP BLANK | | LCS | | | | | |
|------------|----|--------|------|------|---------|---------|--|
| Value | ND | Result | True | %Rec | L.Limit | H.Limit | |
| 0.07 | U | 0.38 | 0.42 | 90.5 | 80% | 120% | |

Value = Preparation Blank Value; ND = "U" for Not-Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits



ASSOCIATED LABORATORIES

QA REPORT FORM - INORGANICS

QC Sample: JW1554 Report Date: 08/26/96

Matrix: SOIL File Name: CR08226S

Prep. Date: 08/22/96 Analyst: LN

Analysis Date: 08/22/96 Report by : T.T.

ID#'s in Batch: JW1548, 1539, 1547, 1554, 1573, LL0591

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = MG/KG

| Test | Method | Sample Result | ND | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD |
|-------|----------|---------------|----|-------------|--------------|------------------|---------|----------|-----|
| CR +6 | 3500Cr D | 1.000 | U | 10.00 | 9.23 | 8.99 | 92.3 | 89.9 | 2.6 |

%REC LIMITS = 75 - 125

RPD LIMITS = 20

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

| PREP BLANK | | LCS | | | | |
|------------|----|--------|-------|------|---------|---------|
| Value | ND | Result | True | %Rec | L.Limit | H.Limit |
| 1.000 | U | 4.450 | 5.000 | 89.0 | 80% | 120% |

Value = Preparation Blank Value; ND = "U" for Not-Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits



ASSOCIATED LABORATORIES

QA REPORT FORM - ORGANICS

QC Sample: JW1576-2 Report Date: 08/27/96

Matrix: SOIL File Name: T08236S

Prep. Date: 08/23/96 Analyst: TH

Analysis Date: 08/23/96 Report by : TT

D#'s in Batch: JW1576, 1547

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = MG/KG

| Test | Method | Sample Result | ND | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD |
|------|--------|---------------|----|-------------|--------------|------------------|---------|----------|-----|
| IRPH | 418.1 | 10.000 | U | 95.38 | 102.40 | 101.20 | 107.4 | 106.1 | 1.2 |

%REC LIMITS = 70 - 130

RPD LIMITS = 30

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

| PREP BLANK | | LCS | | | | |
|------------|----|--------|--------|------|---------|---------|
| Value | ND | Result | True | %Rec | L.Limit | H.Limit |
| 10.000 | U | 30.100 | 31.000 | 97.1 | 80% | 120% |

Value = Preparation Blank Value; ND = "U" for Not-Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits





Date 8/24/96 Page 1 of 1

DISTRIBUTION. White with report Yellow to AL,
Pink to Courier

APPENDIX C
BORING LOGS



LOG OF EXPLORATORY BORING

PROJECT NUMBER 6060

BORING NO. S1

PROJECT NAME Armstrong, South Gate

BY R. Chang

DATE 8/21/96

SURFACE ELEV.

| RECOVERY (FT/FT) | QVA (IPM) | PENETRA- TION (BLOWS/FT) | GROUND WATER LEVELS | DEPTH IN FT | SAMPLES | LITHO- GRAPHIC CORRELATION | DESCRIPTION |
|---------------------|--------------|--------------------------------|---------------------------|----------------|---------|----------------------------------|--|
| | | | | | | | Concrete |
| | | | | 1 | | | Fine Sand (SP), brown-gray, trace gravels, moist, no odor |
| | | | | 2 | | | |
| | | | | 3 | | | |
| | | | | 4 | | | |
| | | | | 5 | | | |
| | | | | 6 | | | |
| | | | | 7 | | | |
| | | | | 8 | | | |
| | | | | 9 | | | |
| | | | | 10 | | | |

REMARKS

DRILLING RIG Hand Auger

DRILL METHOD Hand Auger

COMMENTS

LOG OF EXPLORATORY BORING

PROJECT NUMBER 6060

BORING NO. S2

PROJECT NAME Armstrong, South Gate

BY R Chang

DATE 8/21/96

SURFACE ELEV.

| RECOVERY (FT/FT) | QVA (PSI) | PENETRA- TION (BLOWS/FT) | GROUND WATER LEVELS | DEPTH IN FT. | SAMPLES | LITHO- GRAPHIC COLUMN | DESCRIPTION |
|---------------------|--------------|--------------------------------|---------------------------|-----------------|---------|-----------------------------|--|
| | | | | 1 | | | Concrete |
| | | | | 2 | | | Fine Sand (SP), brown-gray, trace gravels, moist, no odor |
| | | | | 3 | | | |
| | | | | 4 | | | |
| | | | | 5 | | | |
| | | | | 6 | | | |
| | | | | 7 | | | |
| | | | | 8 | | | |
| | | | | 9 | | | |
| | | | | 10 | | | |

REMARKS

DRILLING RIG Hand Auger

DRILL METHOD Hand Auger

COMMENTS

LOG OF EXPLORATORY BORING

PROJECT NUMBER 6060

BORING NO. S 3

PROJECT NAME Armstrong, South Gate

BY R. Chang

DATE 8/21/96

SURFACE ELEV.

| RECOVERY (F1/F1) | OVA (PPM) | PENETRA TION (BLOWS/FT) | GROUND WATER LEVELS | DEPTH IN FT | SAMPLES | LITHO- GRAPHIC COLUMN | DESCRIPTION |
|---------------------|--------------|-------------------------------|---------------------------|----------------|---------|-----------------------------|--|
| | | | | | | | Concrete |
| | | | | 1 | | | Fine Sand (SP), brown-gray, trace gravels, moist, no odor |
| | | | | 2 | | | |
| | | | | 3 | | | |
| | | | | 4 | | | |
| | | | | 5 | | | |
| | | | | 6 | | | |
| | | | | 7 | | | |
| | | | | 8 | | | |
| | | | | 9 | | | |
| | | | | 10 | | | |

REMARKS

DRILLING RIG Hand Auger

DRILL METHOD Hand Auger

COMMENTS

LOG OF EXPLORATORY BORING

PROJECT NUMBER 6060

BORING NO. S4

PROJECT NAME Armstrong, South Gate

BY R. Chang

DATE 8/21/96

SURFACE ELEV.

| RECOVERY (Ft./Ft.) | QVA (PPM) | PENETRA- TION (BLOWS/FT) | GROUND WATER LEVELS | DEPTH IN FT. | SAMPLES | LITHO- GRAPHIC COLUMN | DESCRIPTION |
|-----------------------|--------------|--------------------------------|---------------------------|-----------------|---------|-----------------------------|--|
| | | | | | | | Concrete |
| | | | | 1 | | | Fine Sand (SP), brown-gray, trace gravels, moist, no odor |
| | | | | 2 | | | |
| | | | | 3 | | | |
| | | | | 4 | | | |
| | | | | 5 | | | |
| | | | | 6 | | | |
| | | | | 7 | | | |
| | | | | 8 | | | |
| | | | | 9 | | | |
| | | | | 10 | | | |

REMARKS

DRILLING RIG Hand Auger

DRILL METHOD Hand Auger

COMMENTS

APPENDIX D
PERTINENT DOCUMENTS



CITY OF SOUTH GATE

DEPARTMENT OF PUBLIC WORKS
8650 CALIFORNIA AVENUE
SOUTH GATE, CALIFORNIA 90260-3075
PHONE (213) 563-0537

FILE

FEE \$

APPLICATION FOR INDUSTRIAL WASTE PRE-TREATMENT SYSTEM CLOSURE

FACILITY/SITE INFORMATION & ADDRESS

| | | |
|--------------------|------------------------------------|------------------------------|
| FACILITY/SITE NAME | Armstrong World Ind., Inc. | C/O Mr. William Woyshner |
| ADDRESS | 5037 Patata Street | CROSS STREET Wilcox |
| CITY | South Gate STATE CA ZIP CODE 90280 | PHONE (213) 562-7227 |
| EMERGENCY CONTACT | John Talbot-Consultant | PHONE (714) 567-0566 24 hrs. |

PROPERTY OWNER INFORMATION & ADDRESS

| | | |
|--------------------|----------------|------------|
| FACILITY/SITE NAME | Same as above. | C/O |
| MAILING ADDRESS | | |
| CITY | STATE ZIP CODE | PHONE ()- |

Consultant

CONTRACTOR INFORMATION & ADDRESS

OWNER/OPERATOR AS CONTRACTOR ☐

| | | |
|--------------------|-------------------------------------|--|
| FACILITY/SITE NAME | Cornerstone Tech., Inc. | C/O Mr. John Talbot, REA |
| MAILING ADDRESS | 1300 Quail Street, #203 | CONTRACTOR LICENSE NO. REA-04690 CA 6/97 |
| CITY | Newport Bch STATE CA ZIP CODE 92660 | PHONE (714) 851-3099 |

CLOSURE REQUESTED

☐ PERMANENT, FACILITY REMOVAL (SEE CONDITIONS A, B, C, E AND F ON BACK)☒ PERMANENT, CLOSURE IN PLACE (SEE CONDITIONS A, B, C, D AND F ON BACK)

DESCRIPTION OF WASTE GENERATING OPERATIONS TO BE CLOSED

| | | |
|--------------------------|---|---------------------------------|
| TYPE OF BUSINESS | Floor Tile Manufacturing | I.W. PERMIT NUMBER P00003065T |
| FEDERAL SIC CODE | 3996 | WASTEWATER PRODUCING OPERATIONS |
| Tile washing operations. | | |
| FACILITY(S) TO BE CLOSED | 3,600 Gallon In-Operative Underground Clarifier | |

COMPLETE THE FOLLOWING:

YES NO

HAS AN UNAUTHORIZED RELEASE EVER OCCURRED AT THIS SITE?

☐ ☒

HAVE STRUCTURAL REPAIRS EVER BEEN MADE TO THIS FACILITY?

☐ ☒

WILL NEW FACILITIES BE INSTALLED AFTER CLOSURE?

☐ ☒

WILL INDUSTRIAL WASTE GENERATING OPERATION(S) REMAIN AFTER CLOSURE?

☒ ☐

Existing high efficiency oil/water separator to remain

>>> IF THE ANSWER TO ANY QUESTION ABOVE IS YES, ATTACH EXPLANATION <<<

NOTICE: WASTEWATER, RESIDUES THAT MAY BE LEFT IN FACILITIES TO BE CLOSED AND CONTAMINATED SOILS MAY BE A HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO CHAPTER 6.5, CALIFORNIA HEALTH & SAFETY CODE. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

BY SIGNATURE BELOW AND UNDER PENALTY OF PURGURY, THE APPLICANT CERTIFIES THAT ALL STATEMENTS AND DISCLOSURES ABOVE ARE TRUE AND CORRECT AND THAT THEY HAVE READ AND AGREE TO ABIDE BY THIS CLOSURE AUTHORIZATION AND ALL CONDITIONS AND LIMITATIONS ON THE REVERSE SIDE OF THIS FORM AND ADDITIONAL CONDITIONS THAT MAY BE ATTACHED.

| | |
|---|----------------------|
| APPLICANTS SIGNATURE | DATE July 24, 1996 |
| (PRINT NAME) John R. Talbot, REA | PHONE (714) 851-3099 |
| AS: OWNER <input type="checkbox"/> OPERATOR <input type="checkbox"/> CONSULTANT <input checked="" type="checkbox"/> CONTRACTOR <input type="checkbox"/> | |

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 20.36.220, CITY MUNICIPAL CODE. PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS. THIS AUTHORIZATION EXPIRES 180 DAYS FROM THE DATE BELOW.

BY John R. Talbot DATE July 24, 1996

AUTHORIZATION FOR CLOSURE INDUSTRIAL WASTE PROGRAM

A-GENERAL

1. This closure authorization is limited to closure of industrial wastewater pretreatment facilities NOT permitted as hazardous waste treatment units pursuant to Chapter 6.5, California Health & Safety Code, or underground storage tanks pursuant to Title 11, Division 4, Los Angeles County Code.
2. All work shall be carried out in full compliance with all applicable Federal, State and local laws, ordinances, rules and regulations.
3. The City of South Gate Department of Public Works (CITY) shall be notified in writing 30 days in advance of any facility closure unless this requirement is specifically waived by the Director of Public Works.
4. The applicant shall demonstrate that no pollution or nuisance will be created by the proposed closure.
5. All fees due to the CITY for the operation and/or maintenance of the facility subject to closure through the date of closure shall be paid.
6. A fee pursuant to Section 20.36.270 of the City's Industrial Waste Ordinance shall accompany this application.

B-PRIOR TO STARTING WORK

1. All wastewater generating operations tributary to the facility to be closed shall be terminated or directed to alternative approved facilities.
2. All accumulated industrial and/or hazardous wastes shall be removed from the industrial waste pretreatment facility.
3. All required plumbing and/or sewer abandonment permits shall be obtained

from the Building Official prior to capping any drains, sewers or private sewer systems.

4. Inspection notification(s) shall be made as directed by this approval.

C-APPLICABLE TO ALL CLOSURES

1. Sewer laterals serving the wastewater pretreatment facility to be closed and any open sewer connections shall be removed or severed and capped immediately downstream from such facility and shall include the removal of sample box, cleanout, trap and vent associated with the facility.
2. The severed outlet line shall be capped off with a fast-setting cement or other approved equivalent material.
3. All inlets, floor sinks, drains, trenches or other fixtures tributary to the pretreatment facility shall be removed or permanently sealed with a fast setting cement or other approved equivalent material.
4. If at any time evidence of an unauthorized discharge from the facility or tributary facilities is discovered, the applicant shall notify the CITY within 24 working hours and shall take all necessary steps to secure any contaminated soils or residues.
5. No work shall be covered until all required inspections have been made.

D-PERMANENT CLOSURE IN PLACE

1. Closure in place is allowed only when specified by this authorization.
2. Prior to backfill, any samples required by this approval shall be taken.
3. Upon completion of all work required above, the pretreat-

ment facility shall be back-filled with sand, pea gravel or other approved material and compacted to within a minimum of 4 inches below grade.

4. The remaining 4 inches (minimum) shall be filled with concrete or equivalent approved material.
5. All backfill operations shall be carried out in compliance with applicable Building Code requirements.

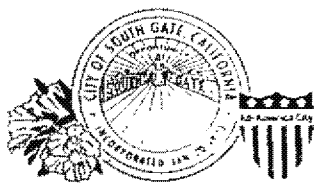
E-PERMANENT CLOSURE-REMOVAL

1. Upon Completion of all work required by Conditions A through C above, the pretreatment facility shall be excavated and transported to a legal point of disposal.
2. Prior to backfill, any samples required by this approval shall be taken.
3. All excavation and backfill operations shall be carried out in compliance with applicable Building Code requirements.

F-REQUIRED REPORTS

1. Within 30 days of the date of closure, the applicant shall furnish CITY a closure report describing all work done, results of any required sampling, disposition of any contaminated soils or materials found and evidence of compliance with Conditions B1, B2, B3, C4, D2, E1 and E2.
2. The closure report shall include any additional requirements made a part of this approval.
3. The closure report shall be submitted to:

CITY OF SOUTH GATE
DEPARTMENT OF PUBLIC WORKS
8650 CALIFORNIA AVENUE
SOUTH GATE, CA 90280-3075
PHONE (213)563-9537



City of South Gate

3650 CALIFORNIA AVENUE * SOUTH GATE, CA 90280-3575 * (213) 563-9537
FAX (213) 563-9532

FROM THE OFFICE OF
JAMES A. BERRY, P.E.
DIRECTOR OF PUBLIC WORKS
CITY ENGINEER

July 18, 1996

John Talbot
CORNER STONE TECHNOLOGY
1300 Quale Street, Suite 203
Newport Beach, CA 92660

**Subject: Industrial Waste Pretreatment System Closure
Armstrong World Industries, 5037 Patata Street**

Dear Mr. Talbot:

As per your request, please find enclosed an Industrial Waste Pretreatment System Closure application for the clarifier at the subject site. In order to abandon the clarifier properly, you will need to complete this form and submit it along with the Closure Fee of \$142.00 and proposed soil sampling locations to this office by **August 18, 1996**.

Please do not take any soil samples until the locations, depths and test methods have been approved by this office. A separate plumbing or sewer permit may be required.

Thank you for your cooperation in this matter. If you have any questions or need assistance in completing the application, please call me at (213) 563-9537, Mondays and Wednesdays between 10:00 and 11:00 am.

Sincerely,

John M. Garcia
Assistant City Engineer

ON FOR CLOSURE
S MATERIALS UNDERGROUND STORAGE
OF LOS ANGELES-DEPARTMENT OF PUBLIC WORKS
MANAGEMENT DIVISION
S. FREMONT AVENUE
HAMBRA, CALIFORNIA 91803-1331

| | | |
|--------|-------------------------------------|-------------------------------|
| Permit | 170642 | <i>2</i> |
| File | 011474-011516 | R/C <i>25</i> |
| Fee | \$ 232 | |
| Check | <input checked="" type="checkbox"/> | Cash <input type="checkbox"/> |
| Phone | (213) 773-3813 | |

OWNER: Name ARMSTRONG WORLD INDUSTRIES, INC.

Phone (213) 773-3813

Mailing Address 5037 PATATA STREET City SOUTH GATE State CA Zip 90280-355

FACILITY:

Occupant Name ARMSTRONG WORLD INDUSTRIES, INC. Phone (213) 773-3813
Site Address 5037 PATATA STREET City SOUTH GATE Zip 90280
Mailing Address SAME City State Zip
Contact Person WILLIAM SCOTT WOYSHNER Title ENVIRONMENTAL SPECIALIST

(213) 562-7227

CONTRACTOR ☐, complete below:

OWNER/OPERATOR AS CONTRACTOR ☒

Name Phone

State License No. Class

CLOSURE REQUESTED:

☐ PERMANENT, TANK REMOVAL (See Conditions A and C Attached)

How many underground tanks will remain after this closure?

☒ PERMANENT, CLOSURE IN PLACE (See Conditions A and D Attached)

☐ TEMPORARY (See Conditions A and B Attached)

TANK DESCRIPTION:

PLOT PLAN ATTACHED ☒

EXISTING HMUSP NO. P0003065T

| Tank No. | Tank Mat'l | Age | Capacity | Materials Stored (Past/Present) |
|----------|------------|---------|---------------|---|
| 1 | CONCRETE | 31 YRS. | 3,600 GALLONS | HAZARDOUS MATERIALS (PAST) --OIL & WATER MIXTURE RAIN WATER (PRESENTLY) |

COMPLETE THE FOLLOWING:

YES NO

Has an unauthorized release ever occurred at this site? ☐ ☒

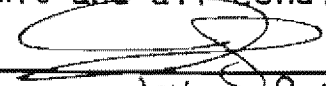
Have structural repairs ever been made to these tanks? ☐ ☒

Will new underground tanks be installed after closure? ☐ ☒

Will any wells, including monitoring wells, be abandoned? ☐ ☒

NOTICE: CONTAMINATED TANKS AND RESIDUES THAT MAY BE LEFT IN TANKS TO BE CLOSED MAY BE A HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO CHAPTER 6.5, CALIFORNIA HEALTH & SAFETY CODE. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations attached.

Applicant's Signature  Date 8/7/96
(Print Name) JOHN R. TALBOT Phone (714) 851-3099

Owner ☐ Operator ☐ ☒

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS
PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS ☒. THIS PERMIT EXPIRES 180 DAYS FROM THE DATE BELOW.

HARRY W. STONE
Director of Public Works

By Ram Iyar Date 8/8/96

ATTENTION CONTRACTOR

NOTIFICATION/PERMIT REQUIREMENTS

This Closure Authorization is issued subject to compliance with all applicable laws and regulations relating to the performance of work including, but not limited to, business license requirements, Building Codes, Fire Codes, Air Quality regulations, Health and Safety Codes, Water Codes, and Transportation regulations.

Pursuant to Los Angeles County Code, Section 11.78.045, and the Conditions and Limitations of the attached Hazardous Materials Under round Storage Closure Authorization, you are required to complete ALL of the agency notifications indicated below within the time period specified prior to commencement of work on this closure.

[X] 72 HOURS - DEPARTMENT OF PUBLIC WORKS INDUSTRIAL WASTE ENGINEERING INSPECTOR:

>>>Unless otherwise noted DPW inspectors are available at the following offices,
Monday through Friday, between 8:00 a.m. and 9:30 a.m. ONLY.<<<

- [] BELLFLOWER AREA - (310) 804-2584
16600 Civic Center Dr., Suite 200, Bellflower, CA 90607
- [] CENTINELA VALLEY AREA - (310) 534-4862 or 534-4859
24320 S. Narbonne Ave., Lomita, CA 90717
- [X] LENNOX AREA - (310) 534-4862 or 534-4859
24320 S. Narbonne Ave., Lomita, CA 90717
- [] SAN GABRIEL VALLEY AREA - (818) 574-0962
125 S. Baldwin Ave., Arcadia, CA 91007
- [] SAN DIMAS AREA - M, W, & F - (818) 574-0961 or T & TH - (818) 961-9611
125 S. Baldwin Ave., Arcadia, CA 91007
- [] EAST LOS ANGELES AREA - (213) 260-3466
5119 E. Beverly Blvd., Los Angeles, CA 90022
- [] NEWHALL AREA - (805) 253-7207
23757 W. Valencia Blvd., Santa Clarita, CA 91355

*Call FRIDAY
Edward 8/16
8:02am*

[X] 48 HOURS (OR AS REQUIRED) - LOCAL FIRE DEPARTMENT FIRE PREVENTION INSPECTOR:

[] City of _____

[X] Los Angeles County Fire Department

*John 8/16 - Inspector
8-930
m-F
m88 11:08am*

[X] 24 HOURS - SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

(909) 396-2000

Compliance Margaret

*8/16/98
11:16am
John Hunter*

[X] COUNTY SERVES AS BUILDING OFFICIAL. SEE ATTACHED.

*City of South Gate
(310) 802-7880*

FAILURE TO PROVIDE NOTICE AS REQUIRED ABOVE MAY RESULT IN PERMIT REVOCATION, ADDITIONAL SITE ASSESSMENT REQUIREMENTS, AND/OR ADMINISTRATIVE PENALTIES AS PROVIDED BY LAW.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION

CLOSURE REPORT REQUIREMENTS

A closure report shall be submitted to the County of Los Angeles Department of Public Works, Waste Management Division, P.O. Box 1460, Alhambra, California 91802-1460, containing:

1. File number of facility and closure permit number.
2. Plot plan to scale showing locations of tanks, sampling points, buildings, adjacent streets, and north arrow.
3. Description of methods for obtaining, handling, and transporting samples.
4. Time and date samples were obtained.
5. Soil sampling certification (including but not limited to soils classification, boring logs, sample procedures, sample locations, initiating chain-of-custody, and groundwater location) for UST closure shall be certified by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils. The certification must clearly state that all work was performed under the supervision of the person signing.
6. Chain-of-custody documentation initiated by person obtaining sample through person at CAL/EPA Department of Toxic Substance Control certified laboratory.
7. Disposal destination of tanks and evidence of legal disposal.
8. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, methods of extraction, and methods of analysis.
9. Documentation as to depth of groundwater at facility.
10. Manifests to document hazardous waste disposal of any removed soil and tank rinseate.
11. Any observations of site contamination.
12. Remedial action plan to mitigate contamination.
13. Report to be signed by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils.

Print Name

JOHN R. TALBOT, REA

Signature



Date

8/8/96

UST, CRR

05/10/93

Post-it brand fax transmittal memo 767

| | | | |
|----|--------------------------|------|---------------------------|
| To | John Talbot | From | Waste Management Division |
| Co | Division of Public Works | Co | Division of Public Works |

Page 1 of 1

CLOSURE -- UNDERGROUND STORAGE TANKS

CONDITIONS A -- GENERAL

1. Closures shall be carried out such that all applicable regulations from the following agencies are complied with: Los Angeles County, Department of County Engineer - Facilities; Los Angeles County Fire Department, Fire Prevention Division or the appropriate City Fire Department; South Coast Air Quality Management District; and Los Angeles County Department of Health Services.
2. The County Engineer and Fire Departments shall be notified in advance of any closure in accordance with the following:
 - a. Removal of tank shall require a three (3) business day advance notification.
 - b. Permanent closure of a tank in place or a temporary closure shall require a 30 day written notification.
3. Consult current fee schedule for costs.
4. All abandoned wells shall be destroyed in such a way that they will not produce water or act as a channel for interchange of water, when such interchange may result in deterioration of the quality of water in any or all water bearing formations penetrated, or present a hazard to the safety and well-being of people and animals.
5. A well destruction permit issued by the Los Angeles Department of Health Services shall be required for all wells requiring a permit for their initial construction.
6. Well destruction shall be accomplished according to methods described in the latest "Water Well Standards: State of California" by the Department of Water Resources, contained in Bulletin 74-81, December 1981, or any other methods that will provide equivalent or better protection.
7. Plans for the decontamination of a facility shall be submitted to the County Engineer for approval no later than 30 days before the commencement of such operations. Other agencies having jurisdiction shall also be notified. These agencies include the California Regional Water Quality Board, the Los Angeles County Department of Health Services, and the South Coast Air Quality Management District.
8. Decontamination shall require the following, as a minimum:
 - a. Cleaning operation shall be done under the supervision of persons who understand the hazardous potential of the original liquid stored and its components.
 - b. The personnel shall be sufficiently skilled to safely carry out such operation.
 - c. Contaminated materials removed from such facility shall be disposed of at legal point of discharge.
 - d. The operation shall be carried out in a manner that will not endanger the health of the public and the environment.

CONDITIONS B -- TEMPORARY

1. All temporary closures shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A -- Inspection Guide #6, "Abandonment or Removal of Underground Tanks," Part A and any other applicable Parts.

CONDITIONS C -- PERMANENT TANK(S) REMOVAL

1. All tank removals shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A -- Inspection Guide #6, Part D and any other applicable Parts.
2. Owners/operators shall notify the Building Department having jurisdiction at the place of removal if a grading permit is necessary.
3. Removed tanks shall not be transported away from the site until an inspection to establish site integrity is carried by the County Engineer.
4. If an appointment has been arranged with a County Engineer Inspector to inspect the removal of a tank, the inspector will only wait at the site a reasonable amount of time (approximately one hour) after arriving for the removal to commence. Another closure fee may be charged if the inspector has to return to the site.
5. After inspection, tanks shall be transported to a legal disposal point.
6. If the tank has stored materials other than motor fuel, fuel oil or waste oil, site integrity shall be demonstrated using the soil sampling and analysis procedures described in CONDITIONS D below.
7. The site shall be backfilled and recompacted to a relative compaction of 90%.

CONDITIONS D -- PERMANENT

1. All permanent closures of tanks in place shall comply with Los Angeles County Fire Department, Fire Prevention Division, Supplement #A -- Inspection Guide #6, Parts B or C, and any other applicable Parts.
2. Owners/operators shall demonstrate part site integrity as follows:
 - a. Test borings shall be slant drilled to intercept a point beneath the center of the tank, if possible. If slant drilling is not feasible, the test borings may be drilled vertically and the reason stated in the report in 2.h. below.
 - b. For single tanks, a minimum of two test borings will be required, each located on opposite sides of the tank along the major axis of the tank.
 - c. For multiple tanks, as a minimum, borings shall be placed at 20 foot intervals around the tank cluster. The actual number and location of borings shall be evaluated on a case-by-case basis. Tanks separated by 20 feet or more shall be considered single tanks for the purposes of test location and placement.
 - d. Soil samples shall be taken at depths of 5, 10, 20, 30 and 40 feet below grade level.
 - e. A Shelby Tube or a Modified California Sampler shall be utilized for taking all soil samples.
 - f. Soil samples shall be capped immediately with teflon or aluminum.
 - g. Soil samples shall not be extruded in the field but are to be immediately placed in a refrigerated ice chest and transported to a state certified laboratory for analysis, using suitable methods.
 - h. A report containing the results of the above analysis shall be submitted to the County Engineer.
3. If the soil analysis in 2. above indicates the presence of contaminants, the County Engineer shall require a site investigation as described in Chapter V of the County's "Underground Storage of Hazardous Materials -- Guidelines."

DEPARTMENT OF PUBLIC WORKS
CLOSURE PERMIT
SOIL SAMPLING REQUIREMENTS FOR TANK REMOVALS
VOLATILE, SEMI-VOLATILE AND EXTREMELY HAZARDOUS MATERIALS

These requirements are in addition to those specified on the Closure Permit or supplemental forms.

Site integrity shall be demonstrated as indicated below prior to tank removals where the tank presently or previously contained either 1) a volatile or semi-volatile priority pollutant as defined by the Federal Register, Vol. 44, No. 233, December 3, 1979, (Revised 1981), or 2) any material which, as a waste, would be considered an extremely hazardous waste as defined by Title 22, California Administrative Code, Section 66680.

It is the Owners/operators responsibility to insure tanks are not excavated until site integrity has been determined and that all applicable safety measures are taken to protect all personnel at the removal site from exposure to hazardous materials. Owners/operators shall demonstrate site integrity as follows:

1. Test borings shall be slant drilled to intercept a point beneath the center of the tank, if possible. If slant drilling is not feasible, the test borings may be drilled vertically and the reason stated in the closure report.
2. For single tanks, a minimum of two test borings will be required, each located on opposite sides of both the major and the minor axis of the tank. The borings shall be as close as practicable to the tank.
3. For multiple tanks, as a minimum, borings shall be placed at 20 foot intervals around the tank cluster. The actual number and location of borings shall be evaluated on a case-by-case basis. Tanks separated by 20 feet or more shall be considered single tanks for the purpose of boring location and placement.
4. Samples shall be obtained under the direct supervision of a California Certified Engineering Geologist, California Registered ~~Geologist~~ or California Registered Civil Engineer with sufficient experience in soils.
5. Soil samples shall be obtained at depths of 5, 10, 20, 30 and 40 feet below grade level.
6. A Shelby Tube or a Modified California Sampler shall be utilized for obtaining all soil samples.
7. Soil samples shall be capped immediately with teflon or aluminum foil.
8. Soil samples shall not be extruded in the field but are to be immediately placed in a refrigerated ice chest and transported to a State certified laboratory for analysis, using suitable methods.
9. If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most downgradient sampling point. The well shall be properly developed and a groundwater sample shall be obtained. and analyzed.
10. All soil samples obtained shall be discrete, undisturbed, sealed and unexposed prior to analysis. The method used to obtain the samples and the date of sampling shall be included in the final report. Samples submitted for laboratory analysis are not to be used for field screening.

NOTICE TO CLOSURE PERMIT APPLICANTS

The South Coast Air Quality Management District (SCAQMD) has adopted Rule 1166 regulating emissions of Volatile Organic Compounds (VOC) from decontamination of soil effective August 6, 1988.

In addition to the requirements of your Closure Permit, persons excavating any underground storage tank that previously contained VOC's must:

- Notify the SCAQMD Executive Officer by telephone at (310) 403-6000 24 hours prior to tank excavation. 1166(c)(1)(A)
- Monitor the excavated material during the excavation for VOC contamination. 1166(c)(1)(B)
- When VOC contamination is detected:
 - * Cease excavation
 - * Cover the contaminated soil until implementation of approved mitigation measures. 1166(c)(1)(C)
 - * Notify the SCAQMD Executive Officer at (714) 396-2000 within 24 hours of detection of VOC contaminated soil. 1166(c)(2)(A)
- A person shall not engage in or allow any on-site or off-site spreading of VOC contaminated soil which results in uncontrolled evaporation of VOC to the atmosphere. 1166(c)(3)

Exemptions

- Treatment of less than one (1) cubic yard of contaminated soil. 1166(d)(1)(A)
- Decontamination of soil containing organic compounds that have initial boiling point of 302°F or greater, Reid Vapor Pressure less than 80mm Hg or Absolute Vapor Pressure less than 36mm Hg at 20°C. 1166(d)(1)(B),(F)
- Removal of soil for sampling purposes pursuant to EPA methods. 1166(d)(1)(C)
- Accidental spillage of five (5) gallons or less of VOC. 1166(d)(1)(D)
- Documentation of soil which is contaminated through natural seepage of VOC from oil and gas wells or other natural sources. 1166(d)(1)(E)

SPECIFIC QUESTIONS ON RULE 1166 SHOULD BE REFERRED TO THE
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (909) 396-2000

3. All soil samples obtained shall be discrete, undisturbed and unexposed prior to analysis. The method used to obtain the samples and the date of sampling shall be included in the final report.
4. If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most downgradient sampling point. The well shall be developed by removing a minimum of four well volumes and a groundwater sample shall be obtained and analyzed.
5. The analytical results for all soil samples shall be expressed milligrams per kilogram (mg/kg), or micrograms per kilogram (ug/kg) as appropriate. Practical quantitation limits of 5-10 ug/kg (ppb) for volatile organics and 1 mg/kg (ppm) for the petroleum hydrocarbons must be achieved by the laboratory. Analytical results for groundwater samples shall be expressed in ug/l (ppb) and practical quantitation limits of .5-5 ug/l (ppb) for volatile organics, and 1 mg/l (ppm) for petroleum hydrocarbons must be achieved by the laboratory.
6. Analytical results shall be reported on laboratory letterhead and shall include the following information: a) The date the analysis was conducted; b) The method of extraction (if applicable); c) Detection limits for each analytical procedure and determination; d) The method of analysis; e) Signature of chemist certifying results.
7. All soil/groundwater samples obtained shall be handled and transported to laboratory in strict accordance with applicable EPA regulations utilizing chain-of-custody procedures. Chain-of-custody documentation shall be included in the final report.
8. If the soil/groundwater analysis indicates undefined contamination at the facility, additional sampling shall be required to define the vertical and lateral extent present.
9. A final report that contains all of the above required information shall be submitted to the office above within one (1) month from the sampling date or 180 days from the date of this permit, whichever is earlier.

August 7, 1996

John R. Talbot, REA
Cornerstone Technologies Inc.
1300 Quail Street, Suite 203
Newport Beach, California 92660

Subject: Armstrong World Industries Clarifier

Dear John:

I have reviewed the material you provided on the subject clarifier. The oil/water separator is supported directly over the clarifier walls. Removal of the clarifier would cause loss of support for the separator. Based on structural considerations, I would advise leaving the clarifier in place.

Sincerely,

GRILLIAS • PIRC • ROSIER • ALVES



Peter A. Grillias, SE
PAG:dgg



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION

CLOSURE REPORT REQUIREMENTS

A closure report shall be submitted to the County of Los Angeles Department of Public Works, Waste Management Division, P.O. Box 1460, Alhambra, California 91802-1460, containing:

1. File number of facility and closure permit number.
2. Plot plan at scale showing locations of tanks, sampling points, buildings, adjacent streets, and north arrow.
3. Description of methods for obtaining, handling, and transporting samples.
4. Time and date samples were obtained.
5. Soil sampling certification (including but not limited to soils classification, boring logs, sample procedures, sample locations, initiating chain-of-custody, and groundwater location, for UST closure shall be certified by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils. The certification must clearly state that all work was performed under the supervision of the person signing.
6. Chain-of-custody documentation initiated by person obtaining sample through person at CAL/EPA Department of Toxic Substance Control certified laboratory.
7. Disposal destination of tanks and evidence of legal disposal.
8. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, methods of extraction, and methods of analysis.
9. Documentation as to depth of groundwater at facility.
10. Manifests to document hazardous waste disposal of any removed soil and tank rinseate.
11. Any observations of site contamination.
12. Remedial action plan to mitigate contamination.
13. Report to be signed by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils.

Print Name

JOHN R. TALBOT, REA

Signature

Date

8/8/96

EST. 1999

05/10/93

Post-it brand fax transmission memo 757 43 pages
To: John Talbot
From: John Talbot
Co: John Talbot
Co: John Talbot



ARMSTRONG WORLD INDUSTRIES, INC.
P.O. BOX 3001 • LANCASTER, PA. 17604

60-1237
815

| |
|----------|
| DATE |
| 05-29-96 |

| |
|---------------|
| AMOUNT |
| \$*****375.00 |

PAY
TO THE ORDER OF

DISBURSEMENT ACCOUNT

LOS ANGELES CO DEPT OF PUB WORKS
CASHIER UNIT
P O BOX 1460
ALHAMBRA CA 91802

Stephen C. Hendrix
TREASURER

Carler County State Bank, A Correspondent of
The Boatmen's® National Bank of St. Louis

⑈696333⑈ ⑆08151237⑆ ⑆0100770973⑈

Armstrong ARMSTRONG WORLD INDUSTRIES, INC.
P.O. BOX 3001 • LANCASTER, PA. 17604

REMITTANCE ADVICE

696333

| INVOICE NUMBER | VOUCHER NUMBER | INVOICE DATE | INVOICE AMOUNT | DISCOUNT AMOUNT | NET AMOUNT | |
|-------------------|-------------------|-----------------|-------------------|--------------------|------------|---|
| 011474 | E19004 | 05-10-96 | 375.00 | | 375.00 | * |
| 110 000532994 | TOTALS: | | 375.00 | | 375.00 | |



June 4, 1996

Waste Management Division
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
900 South Fremont Avenue
Alhambra, CA 91803-1331

SUBJECT: UNDERGROUND STORAGE TANK PERMIT RENEWAL FORMS

SITE: ARMSTRONG WORLD INDUSTRIES, INC.
5037 Patata Street
South Gate, CA 90280-3555
(Existing Permit No.: P00003065T)

To Whom It May Concern:

Armstrong World Industries, Inc. ("Armstrong") is submitting the permit renewal forms for an existing wastewater settling tank/clarifier that was captured under the Hazardous Material Underground Storage Permit (HMUSP) program.

Enclosed are the completed forms (Permit Application Supplement/Notice to File and Permit Application Form A), and a check (Check No.: 696333) for permit fees and surcharge fees in the amount of \$375.00.

Armstrong is in the process of selecting a contractor to close the existing settling tank in accordance with California Code of Regulations, Title 23, Underground Storage Tank Regulations. During the next few weeks, we will be choosing a contractor, submitting the necessary closure application forms, and preparing a work plan for submittal to your department. We are an environmentally conscious facility and will make every effort to ensure compliance with all environmental rules and regulations.

Should you have any questions or comments, please do not hesitate to call me at (213) 562-7227.

Sincerely,

A handwritten signature in cursive script that reads "Bill Woysner".

Bill Woysner
Environmental Specialist

INDUSTRIES
90280

HAZARDOUS MATERIAL UNDERGROUND STORAGE PERMIT FEE
FOR PERMIT PERIOD: 05/05/96 THROUGH 05/04/97

FILE NO: 011474 011516
AREA: 23
DATE: 03/28/96

MAILING ADDRESS: ARMSTRONG WORLD INDUSTRIES
BOX 1489
SOUTH GATE, CA 90280

RETURN TO: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
CASHIER UNIT
P. O. BOX 1460
ALHAMBRA, CA 91802

CHECK PAYABLE TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS

* AMOUNT DUE: \$375.00 *
* DUE DATE: 05/05/96 *

OF PERMITTED TANKS:

| FEE TYPE | FEE DESCRIPTION | BALANCE FORWARD | ANNUAL FEE | AMOUNT DUE |
|----------|------------------------|-----------------|------------|------------|
| Y | ANNUAL PERMIT FEE | | \$131.00 | \$131.00 |
| S | STATE SURCHARGE | | \$56.00 | \$56.00 |
| A | NEW PERMIT APPLICATION | | \$188.00 | \$188.00 |
| | TOTALS | | \$375.00 | \$375.00 |

DUE DATE: 06/05/96

THIS MUST BE RECEIVED BY 07/05/96. FEE SUBJECT TO A 30% PENALTY FOR EVERY 30 DAYS DELINQUENT PAST THE DUE DATE. PERMITS
SENT 90 DAYS PAST THE DUE DATE ARE SUBJECT TO SUSPENSION.

REFER ALL INQUIRES TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS (818) 458-3517
* RETAIN THIS PORTION FOR YOUR RECORDS *

ARMSTRONG WORLD INDUSTRIES
1489 BOX
SOUTH GATE, CA 90280

HAZARDOUS MATERIAL UNDERGROUND STORAGE PERMIT FEE
FOR PERMIT PERIOD: 05/05/96 THROUGH 05/04/97

PERMIT NO: P000030657
FILE NO: 011474 011516
AREA: 23
DATE: 03/28/96

MAILING ADDRESS: ARMSTRONG WORLD INDUSTRIES
BOX 1489
SOUTH GATE, CA 90280

RETURN TO: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
CASHIER UNIT
P. O. BOX 1460
ALHAMBRA, CA 91802

CHECK PAYABLE TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS

* AMOUNT DUE: \$375.00 *
* DUE DATE: 05/05/96 *

REFER ALL INQUIRES TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS (818) 458-3517
* RETURN THIS PORTION WITH PAYMENT *

**PERMIT APPLICATION SUPPLEMENT/NOTICE TO FILE
HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT**

DATE: 6/5/96



Los Angeles County Department of Public Works
Waste Management Division
900 South Fremont Avenue
Alhambra, CA 91803-1331

This form must accompany all tank permit applications to operate underground storage tanks. **"See instructions on back of this form"**

| DPW USE ONLY | |
|--------------|--------------------|
| FILE# | <u>11474-11516</u> |
| PERMIT# | <u>3065T</u> |
| R/C CODE | <u>2J</u> |
| SIC CODE | |
| STATE ID# | |
| TGP | <u>TGC</u> |

IF THERE ARE NO UNDERGROUND TANKS AT THIS FACILITY, GO TO PARTS F & G.

A) **ARMSTRONG WORLD INDUSTRIES, INC.**

FACILITY NAME
5037 PATATA STREET

MAILING ADDRESS
SOUTH GATE, CA 90280-3555

CITY STATE ZIP CODE

FACILITY LOCATION

(B) Application is hereby made for a Hazardous Material Underground Storage Permit (HMUSP) to operate and maintain underground storage tanks within Los Angeles County jurisdiction.

NEW PERMIT ☐ EXISTING PERMIT RENEWAL ☒

Existing Permit Number P00003065T

Number of tanks at facility 1 (old settling tank)

C) Assessor parcel identification (obtain from property tax bill):

Map Book Number 6224 Page Number 031 Parcel Number 003

D) This supplement must be accompanied by:

- (1) One copy of state form "A", facility/site information, for each site.
- (2) One copy of state form "B", tank permit application information, for each tank.
- (3) Leak Detection Program (LDP) and Tank Monitoring Program (TMP) proposals.
- (4) HMUSP application fee (Complete Part E).

E) Hazardous Materials Underground Storage Permit (HMUSP) fee schedule:

The HMUSP application fee shall include the first annual permit maintenance fee, and State surcharge.
Circle amount remitted.

| NUMBER OF TANKS | HMUSP (APPLICATION FEE) | ANNUAL PERMIT MAINTENANCE FEE | STATE SURCHARGE | = | TOTAL FEES DUE |
|-----------------|----------------------------|----------------------------------|-----------------|---|-------------------|
| 1 | \$188 | + \$131 | + \$56 | = | \$375 |
| 2 | \$221 | + \$153 | + \$112 | = | \$486 |
| 3 | \$254 | + \$175 | + \$168 | = | \$597 |
| 4 | \$287 | + \$197 | + \$224 | = | \$708 |
| 5 | \$320 | + \$219 | + \$280 | = | \$819 |
| 6 or more tanks | \$155 + \$33 per tank | + \$109 + \$22 per tank | + \$56 per tank | | |

MAKE CHECKS PAYABLE TO: "L.A. COUNTY DEPARTMENT OF PUBLIC WORKS"

(F) Facilities claiming an exemption to regulation must complete this section:

- ☐ There are no underground storage tanks within this facility.
- ☐ Final interceptor(s) regulated under industrial waste Permit No. _____
- ☐ Underground containers within this facility are used only for emergency spill containment for above ground storage tanks.
- ☐ Other (attach a written statement).

(G) Tank owner representative must complete this section (see back of form)

Signature James D. Bosserman Title PLANT MANAGER

Printed Name JAMES D. BOSSERMAN Date 6/5/96

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM ☒ 1 NEW PERMIT ☒ 3 RENEWAL PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 7 PERMANENTLY CLOSED SITE
☐ 2 INTERIM PERMIT ☐ 4 AMENDED PERMIT ☐ 6 TEMPORARY SITE CLOSURE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

| | | | |
|---|-------------|---|---|
| DBA OR FACILITY NAME ARMSTRONG WORLD INDUSTRIES, INC. | | NAME OF OPERATOR SAME | |
| ADDRESS 5037 PATATA STREET | | NEAREST CROSS STREET WILCOX STREET | PARCEL # (OPTIONAL) |
| CITY NAME SOUTH GATE | STATE CA | ZIP CODE 90280-3555 | SITE PHONE # WITH AREA CODE (213) 773-3813 |
| <input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL AGENCY DISTRICTS* <input type="checkbox"/> COUNTY AGENCY* <input type="checkbox"/> STATE AGENCY* <input type="checkbox"/> FEDERAL AGENCY* | | | |
| * If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST | | | |
| TYPE OF BUSINESS <input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input checked="" type="checkbox"/> 5 OTHER | | <input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS | # OF TANKS AT SITE 1 |
| | | E. P. A. I. D. # (optional) CAD088387741 | |

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

| | | | |
|--|--|---|--|
| DAYS: NAME (LAST, FIRST) WOYSHNER, WILLIAM S. | PHONE # WITH AREA CODE (213) 562-7227 | DAYS: NAME (LAST, FIRST) BOSSERMAN, JAMES D. | PHONE # WITH AREA CODE (213) 562-7215 |
| NIGHTS: NAME (LAST, FIRST) WOYSHNER, WILLIAM S. | PHONE # WITH AREA CODE (310) 430-1650 | NIGHTS: NAME (LAST, FIRST) BOSSERMAN, JAMES D. | PHONE # WITH AREA CODE (714) 524-6468 |

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

| | | | |
|---|-------------|--|--|
| NAME ARMSTRONG WORLD INDUSTRIES, INC. | | CARE OF ADDRESS INFORMATION | |
| MAILING OR STREET ADDRESS P. O. BOX 3001 | | <input checked="" type="checkbox"/> BOX TO INDICATE <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY | |
| CITY NAME LANCASTER | STATE PA | ZIP CODE 17604 | PHONE # WITH AREA CODE (717) 397-0611 |

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

| | | | |
|---|-------------|--|--|
| NAME OF OWNER ARMSTRONG WORLD INDUSTRIES, INC. | | CARE OF ADDRESS INFORMATION | |
| MAILING OR STREET ADDRESS 5037 PATATA STREET | | <input checked="" type="checkbox"/> BOX TO INDICATE <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY | |
| CITY NAME SOUTH GATE | STATE CA | ZIP CODE 90280-3555 | PHONE # WITH AREA CODE (213) 773-3813 |

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 44-009330

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

| | | | | |
|---|---|--------------------------------------|--------------------------------------|--|
| <input checked="" type="checkbox"/> BOX TO INDICATE N/A | <input type="checkbox"/> 1 SELF INSURED | <input type="checkbox"/> 2 GUARANTEE | <input type="checkbox"/> 3 INSURANCE | <input type="checkbox"/> 4 SURETY BOND |
| | <input type="checkbox"/> 5 LETTER OF CREDIT | <input type="checkbox"/> 6 EXEMPTION | <input type="checkbox"/> 99 OTHER | |

VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING:

I ☒ II ☐ III ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

| | | |
|---|--------------------------------|----------------|
| OWNER'S NAME (PRINTED & SIGNED) JAMES D. BOSSERMAN | OWNER'S TITLE PLANT MANAGER | DATE 6/5/96 |
| LOCAL AGENCY USE ONLY | | |

| | | |
|--------------------------|---------------------------|-------------------------------------|
| COUNTY # 19 | JURISDICTION # 000 | FACILITY # 11474-111516 |
| LOCATION CODE - OPTIONAL | CENSUS TRACT # - OPTIONAL | SUPVISOR - DISTRICT CODE - OPTIONAL |

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM ☐ 1 NEW PERMIT ☐ 3 RENEWAL PERMIT ☐ 5 CHANGE OF INFORMATION ☒ 7 PERMANENTLY CLOSED ON SITE
☐ 2 INTERM PERMIT ☐ 4 AMENDED PERMIT ☐ 6 TEMPORARY TANK CLOSURE ☐ 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: ARMSTRONG WORLD INDUSTRIES, INC.

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D. # 316 B. MANUFACTURED BY: HYGI
C. DATE INSTALLED (MO/DAY/YEAR) 1965 D. TANK CAPACITY IN GALLONS APPROX. 3600 GALLONS

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C

A. ☐ 1 MOTOR VEHICLE FUEL ☐ 4 OIL ☐ 9. ☐ 1 PRODUCT ☐ 10 REGULAR UNLEADED ☐ 3 DIESEL ☐ 6 AVIATION GAS
☐ 2 PETROLEUM ☒ 80 EMPTY ☐ 11 PREMIUM UNLEADED ☐ 4 GASAHOL ☐ 7 METHANOL
☐ 3 CHEMICAL PRODUCT ☐ 95 UNKNOWN ☒ 2 WASTE ☐ 2 LEADED ☒ 99 OTHER (DESCRIBE IN ITEM D BELOW)
D. IF (A-1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED RAIN WATER C A S #

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM ☐ 1 DOUBLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 95 UNKNOWN
☒ 2 SINGLE WALL ☐ 4 SECONDARY CONTAINMENT (VAULTED TANK) ☐ 99 OTHER
B. TANK MATERIAL ☐ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☐ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
☒ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE WFRP
☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☐ 95 UNKNOWN ☐ 99 OTHER
C. INTERIOR LINING ☐ 1 RUBBER LINED ☐ 2 ALKYL LINED ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING
☐ 5 GLASS LINING ☒ 6 UNLINED ☐ 95 UNKNOWN ☐ 99 OTHER
IS Lining MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___
D. CORROSION PROTECTION ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☐ 4 FIBERGLASS REINFORCED PLASTIC
☐ 5 CATHODIC PROTECTION ☒ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER
E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) N/A OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) N/A

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE A U 1 SUCTION A U 2 PRESSURE (A) U 3 GRAVITY A U 99 OTHER
B. CONSTRUCTION (A) U 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION (A) U 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE
A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE WFRP
A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 95 UNKNOWN A U 99 OTHER
D. LEAK DETECTION ☐ 1 AUTOMATIC LINE LEAK DETECTOR ☐ 2 LINE TIGHTNESS TESTING ☐ 3 INTERSTITIAL MONITORING ☐ 99 OTHER N/A

V. TANK LEAK DETECTION

☒ 1 VISUAL CHECK ☐ 2 INVENTORY RECONCILIATION ☐ 3 VADOZE MONITORING ☐ 4 AUTOMATIC TANK GAGING ☐ 5 GROUND WATER MONITORING
☐ 6 TANK TESTING ☐ 7 INTERSTITIAL MONITORING ☐ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) 1/94 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING 2,000 GALLONS 3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☒

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) JAMES D. BUSSERMAN DATE 6/5/96

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

| | | | | |
|---------------|-------------------------|----------------|------------------------|--------|
| STATE I.D. # | COUNTY # | JURISDICTION # | FACILITY # | TANK # |
| PERMIT NUMBER | PERMIT APPROVED BY/DATE | | PERMIT EXPIRATION DATE | |

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
C.A.D.0.8.83 8 7 7 4 1

Manifest
20184

2. Page 1
of 1

3. Generator's Name and Mailing Address
ARMSTRONG WORLD IND. INC.
5037 PATATA STREET
4. Generator's Phone (213) 562-7227

SOUTH GATE, CA. 90280

5. Transporter 1 Company Name
HAZARDOUS TECHNOLOGIES, INC.

6. US EPA ID Number
C.A.D.0.0.9.6.6.1.8.4.4

A. Transporter's Phone
(909) 595-5991

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
CROSBY & OVERTON
1610 WEST 17TH STREET
LONG BEACH, CA. 90813

10. US EPA ID Number
C.A.D.0.2.8.4.0.9.0.1.9

C. Facility's Phone
(310) 453-5445

11. Waste Shipping Name and Description

12. Containers
No. Type
13. Total
Quantity
14. Unit
Wt/Vol

a. NON-HAZARDOUS WASTE LIQUID

0.01 T 61400 G

b.
c.
d.

D. Additional Descriptions for Materials Listed Above
RAIN WATER CONTAINING TRACE AMOUNTS
OF PETROLEUM OIL
APPROXAL #19742

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
GLOVES

APPROPRIATE PROTECTIVE CLOTHING

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name
X BILL WATSHNER

Signature
[Signature]

Month Day Year
08/11/96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Shelton Lowe

Signature
[Signature]

Month Day Year
10/31/96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
BERNIE VIVIAN

Signature
[Signature]

Month Day Year
10/31/96

ORIGINAL - RETURN TO GENERATOR